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No. 16th RA bill 07/12/2023 **CONTRACT CERTIFICATE** 07/12/2023

(For Other Works)

Division: Electrical (Dasarahalli) **JOB NO :015-22-000002** **Sub-Division: Electricals**

Head of Account : P0300 M & R to street lights-Replacement of burnt bulbs etc

Bill Received No. Dated Book Voucher No..... Dated...

Schedule Docket Name of Work :- Annual Maintenance of street lights package D-5 in T Dasarahalli ward no 15

Bill Period:01.11.2023 to 30.11.2023(1 Months)

Name of Contractor and Full Address:- M/s. PRASHANTH ELECTRICALS

Reference to Agreement No:- EE/Ele/DZ/TEND/AG/000013/2021-22 Date:16.03.2022

Reference to Work order No:- EE/Ele/DZ/TEND/WO/000005/2022-23 Date:04.04.2022

Reference to Supplementatry Agreement No: EE/Ele/DZ/TEND/SAG/25/-.2022-23 Date:24.03..2023

Reference to Supplementatry Work order No:- EE/Ele/DZ/TEND/SWO/31/-2022--23 Date:24.03.2023

Certified that the measurements were taken by me on 02/12/2023 and recorded of Pages 684905 to 684908 of measurement Book No. 6859/23-24 And that the work is satisfactorily executed.

Contractor

Officer-in-charge of work
Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike
Dasarahalli Zone, Bengaluru

04/12/2023

Certified that the measurement were taken by me on .....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

ASST EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

1)	Total value of work done or supplies made as per account rendered	uptobill	378242=00
2)	Deduct amount to be held in reserve being .....percent Rs.	Previous	365805=00
3)	" Balance	Present	12437=00
4)	Deduct Payment:	TND	11969=00
a)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	IT(2%)	1200=00
		CGST(1%)	1200=00
		SGST(1%)	1200=00
		LWC(1%)	1200=00
b)	Payments cost store or other material supplied. Now made recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	CBF	120=00
		Fine	1000=00
		Scrap(2%)	2069=00
5)	Balance being unpaid value of work done held in reserve.		8389=00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	un adjustments items	00
7)	Net amount due to or from Contractor	Cheque	115048=00
8)	Advance to Contractor for materials brought to site (as detailed) within. Value of Government materials supplied.		
		Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words)..... .....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

Witness
1.
2.

Dated Signature of Contractor Stamp

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

(For use in the Office)

Audited and admitted for Rs. 12437/-

Passed by Cheque for Rs. 115048/-

(One lakh fifteen thousand forty eight only)

by adjustment Rs. 8389/-

Accounts Superintendent Exe. Engineer (Ele)

B.B.M.P. Dasarahalli Division

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Sl. No.	Description of Item	Unit
	Name of work:-Annual Maintanance of street lights package D-5 in T. Dasarahalli ward no 15	
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below. 36/40 W fluorescent tube light street lighting system.	Each
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below. 125W HPMV Park lighting system.	Each
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed belowPoles with 250W HPSV street lighting system.	Each
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below 400 watts HPSV street light /High mast lighting system.	Each
5	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 24 Watt to 40 Watt LED Park/ street lighting system.	Each
6	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 40 Watt to 65 W LED street Light lighting system.	Each
7	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 90W LED street light lighting system.	Each
8	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for110/120 watt LED street light lighting system	Each
9	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 150/180 watt LED street light /High mast lighting system.	Each

Previous Measurement		Present Measurement				Total Upto Date		Remarks
Qty.	Cost	Qty.		Rate Rs. P.	Amount	Qty	Cost	
				1 Months		Upto Date paid so for X 20months		
30X19Months	8568.00	0	685.45/12=57.12	57.12	0.00	30X20Months	8568.00	
12X19Months	14368.56	12	756.29/12=63.02	63.02	756.24	12X20Months	15124.80	
851X19Months	1373556.55	851	1019.41/12=84.95	84.95	72292.45	851X20Months	1445849.00	
36X19Months	63728.28	36	1118.08/12=93.17	93.17	3354.12	36X20Months	67082.40	
473X19Months	659016.71	473	880.01/12=73.33	73.33	34685.09	473X20Months	693701.80	
49X19Months	89012.91	49	1147.43/12=95.61	95.61	4684.89	49X20Months	93697.80	
27X19Months	58897.53	27	1377.66/12=114.81	114.81	3099.87	27X20Months	61997.40	
0	0.00	0	0	0	0.00	0	0.00	
0	0.00	0	0	0	0.00	0	0.00	

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Sl. No			
10	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.300mmx450mmx284mm	Each
11	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947 100 to 125Amps	Each
12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.50-63 Amps SP	Each
13	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each
14	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.6 sqmm	Mtr
15	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.6 sqmm	Mtr
16	1.1 KV UG Aerial bunched cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max) (b) Permanent Elongation After Cooloing: 3% (Max) 2. Thermal Aging in oven: a) Tensile Strength: 16 N/mm^2 (Min) (b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm^2 (Max) 4. Carbon Black Content shall be ranging from: 2% to 3%	Km
17	Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	Km
18	Supplying of 1.1 KV CT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS: 1554 (Part-1) or IS-7098 Part-1. Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS 3975 4 core 16 sqmm	Mtrs
19	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtrs
	Sub Total	
	Add GST 18%	
	Total	
	Add GST 18% on Item no10 to 19	
	Fine imposed for non burning of street lights For the period of 01.11.2023 to 30.11.2023 and GPS time violation Penalty for the present bill	
	As per street light agreement clause 2 % will be deducted in monthly maintenance bill against the released scrap material	
	GRAND TOTAL	

3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger (Cum Neutral)

Certificate

1. The above said monthly maintenance work has been carriedout satisfactorily
2. The Amount Claimed in this Bill has not been claimed in any of the previous bill

Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike
Dasarahalli Zone, Bengaluru

ASST EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

20	102540	0	0	5127.00	0.00	20	102540.00	
44	316800	0	0	7200.00	0.00	44	316800.00	
48	34704	0	0	723.00	0.00	48	34704.00	
48	193440	0	0	4030.00	0.00	48	193440.00	
18	1260	0	0	70.00	0.00	18	1260.00	
172	1204	0	0	7.00	0.00	172	1204.00	
2.75	404250	0	0	147000.00	0.00	2.75	404250.00	
2.75	61790	0	0	22469.00	0.00	2.75	61789.75	
370	55500	0	0	150.00	0.00	370	55500.00	
370	11100	0	0	30.00	0.00	370	11100.00	
	3349883.26				118872.66		3454491.20	
ADD 6%	308821.88	-12%		14264.72	104607.94	ADD 6%	327651.31	
	3658705.14	18%		18829.43	123437.37		3782142.51	
		18%	0.00	0.00	0.00			
					123437.37			
	30300.00				1000.00		31300.00	
	45982.03				2468.75		48450.78	
	3582423.11				119968.62		3702391.73	

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